

# ADVANCED CERTIFICATE IN LOGISTIC AND SUPPLY CHAIN MANAGEMENT



International School  
*Of* Management

— UNLOCKING KNOWLEDGE —

# INTRODUCTION



Logistics and supply chain management activities have always been vital to organizations of all kinds. This management area, which federates activities as diverse as production, transportation, inventory, warehousing, purchasing, material handling, sales and customer service; represents a synthesis of methods and techniques coming from traditional business areas of finance, accounting, management, and marketing, as well as business decision-making tools offered by operations research, statistics, and economics.

This course examines the role of logistics in the supply chain within a focal firm as well as between organisations linked within a given supply network. Topics cover issues such as introduction to the basic terms of logistics, distribution and transportation alternatives, the connection between logistics and marketing, the estimation of value and costs in logistics, sourcing and supply management, supply chain planning and control strategies, logistics future, challenges and opportunities. The course also surveys operations research models and techniques developed for a variety of problems arising in logistical planning of production systems. Students will get a clear idea of the expanding role of logistics in business today. They will also be familiar with the principles and processes of logistics as a strategic

choice in supply chain management.

The course further examines logistics systems that support the physical supply of raw, semi-finished and finished materials to a firm, the planning and control of operations, and the delivery of the products or services up to the final customers, with the objective of achieving a sustainable competitive advantage and optimizing the value and the long-term performance of the firm and the supply chain as a whole.

The focus will be on the design, planning, organization and control of the associated activities. The following topics will be covered: supply chain structure, objectives and evaluation drivers and metrics, network design and facility location in a supply chain, demand and sales forecasting, aggregate planning, planning and managing inventory in a supply chain, transportation operations, sourcing and procurement, pricing, and information technologies in supply chain management.

# LEARNING OUTCOMES



After completion of the course, students will be able to:

1. Define a supply chain (SC), and understand its different structures and its importance to the success of a firm.
2. Understand the concept of strategic fit between the SC strategy and the competitive strategy of the firm and how to achieve it.
3. Identify the main drivers of SC performance and measure them using precise metrics.
4. Assess the importance of distribution networks and the different options available for their design.
5. Develop a methodological framework for network design and facility location; and use optimization models and techniques for facility location and capacity allocation.
6. Use decision trees to evaluate supply chain decisions under uncertainty.
7. Use time-series methodologies to forecast demand in a supply chain.
8. Understand situations in which aggregate planning is appropriate and the role it plays in the supply chain.
9. Formulate aggregate planning problems as linear programs and solve them using MS Excel.
10. Understand the concept of cycle inventory and develop the Economic Quantity Order (EOQ) model and some of its variants.
11. Use safety inventory to deal with demand uncertainty in the supply chain.
12. Understand the importance of transportation in the SC, and identify the different modes of transportation and the role played by infrastructure and policies.
13. Discuss sourcing decisions in the supply chain and the increasing importance of auctions and negotiations.
14. Understand pricing and revenue management and their role in the SC.
15. Assess the importance of the role played by information technology in a supply chain, and identify major IT applications

# COURSE OUTLINE

- Introduction and overview of the course contents
- Logistics and the Supply Chain
- Material flow and information flow
- Competitive advantage through logistics
- Logistics strategy
- The marketing perspective
- Market segmentation and demand profiling
- Quality of customer service
- Setting priorities for logistics strategy
- Where does the value in the context of logistics come from
- How can logistics costs be represented
- Activity Based Costing (ABC)
- Supply chain operations reference model (SCOR)
- Drivers and logistics implications of internationalization
- The tendency towards internationalization
- The challenges of international logistics and installation location
- Organising for international logistics
- Reverse logistics
- Managing for risk readiness
- Corporate social responsibility in the supply chain
- Analysis of the transportation and products distribution system
- The transport system: organization, institutional framework, liberalization of the transport market and impact on logistics processes
- Transport and transportation mean selection criteria
- Distribution and transportation systems standards
- Methods for solving transportation and distribution problems
- Methods for solving production scheduling and resource allocation problems
- Supply chain planning and control
- Coordination in supply chains
- The interconnection between P-D parameters in Logistics
- Future challenges and opportunities in Logistics
- Supply management and Logistics
- Rationalising and segmenting the supply base
- Procurement technologies

# REGISTRATION & ENQUIRIES

**Duration :** 3 days

**Tuition :**

In- Person: N230,000

Live Online: N200,000

LMS: N120,000 (3 Weeks)

**FOR FURTHER ENQUIRIES, PLEASE CONTACT:**

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**PLEASE MAKE CHEQUE AVAILABLE TO  
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